

**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Alabama, total .....	2,333,384	870,416	1,095,255	0	332,124	0	30,331	0	5,258
Department of Agriculture .....	22,965	8,185	0	0	14,723	0	57	0	0
Department of Commerce .....	2,237	57	1,696	0	484	0	0	0	0
Department of Defense, research <sup>2</sup> .....	133,330	74,282	39,317	0	15,671	0	4,060	0	0
Department of Defense, total development <sup>3</sup> .....	1,559,433	553,076	997,405	0	7,775	0	1,177	0	0
Department of Energy .....	9,875	74	1,044	0	8,419	0	338	0	0
Department of Health & Human Svcs .....	243,885	1,389	3,847	0	215,050	0	21,055	0	2,544
Department of the Interior .....	2,765	2,136	0	0	486	0	0	0	143
Department of Transportation .....	11,450	3,848	453	0	4,865	0	8	0	2,276
Environmental Protection Agency .....	2,761	0	1,115	0	318	0	1,153	0	175
National Aero and Space Admin .....	327,288	227,369	48,379	0	49,026	0	2,394	0	120
National Science Foundation .....	17,395	0	1,999	0	15,307	0	89	0	0
Alaska, total .....	212,215	98,997	15,534	0	73,849	0	13,912	0	9,923
Department of Agriculture .....	15,539	9,775	0	0	5,449	0	50	0	265
Department of Commerce .....	52,029	40,325	555	0	8,768	0	361	0	2,020
Department of Defense, research <sup>2</sup> .....	2,294	62	26	0	2,201	0	5	0	0
Department of Defense, total development <sup>3</sup> .....	39,654	28,901	9,283	0	1,470	0	0	0	0
Department of Energy .....	3,254	0	2,603	0	651	0	0	0	0
Department of Health & Human Svcs .....	17,295	2,569	343	0	6,550	0	4,035	0	3,798
Department of the Interior .....	21,312	15,834	1,530	0	2,780	0	0	0	1,168
Department of Transportation .....	4,506	1,401	5	0	0	0	1,200	0	1,900
Environmental Protection Agency .....	862	0	62	0	28	0	0	0	772
National Aero and Space Admin .....	17,948	130	261	0	12,907	0	4,650	0	0
National Science Foundation .....	37,522	0	866	0	33,045	0	3,611	0	0
Arizona, total .....	1,781,454	235,031	1,258,944	0	222,842	40,384	18,113	0	6,140
Department of Agriculture .....	29,195	18,893	0	0	10,220	0	0	0	82
Department of Commerce .....	5,191	666	2,074	0	751	0	875	0	825
Department of Defense, research <sup>2</sup> .....	81,633	24,436	31,160	0	26,007	0	30	0	0
Department of Defense, total development <sup>3</sup> .....	1,304,617	174,190	1,127,928	0	2,499	0	0	0	0
Department of Energy .....	5,423	0	0	0	5,423	0	0	0	0
Department of Health & Human Svcs .....	148,650	4,887	23,827	0	103,965	0	13,685	0	2,286
Department of the Interior .....	9,141	7,421	56	0	1,408	0	22	0	234
Department of Transportation .....	4,796	79	914	0	770	0	546	0	2,487
Environmental Protection Agency .....	2,818	0	102	0	2,716	0	0	0	0
National Aero and Space Admin .....	101,361	4,459	71,624	0	22,369	0	2,683	0	226
National Science Foundation .....	88,629	0	1,259	0	46,714	40,384	272	0	0
Arkansas, total .....	183,867	52,304	55,666	0	67,996	0	4,241	0	3,660
Department of Agriculture .....	42,139	23,845	0	0	18,279	0	15	0	0
Department of Defense, research <sup>2</sup> .....	3,600	195	695	0	2,710	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	54,066	500	53,566	0	0	0	0	0	0
Department of Energy .....	220	0	0	0	220	0	0	0	0
Department of Health & Human Svcs .....	72,420	26,172	431	0	39,604	0	4,226	0	1,987
Department of the Interior .....	1,803	1,592	0	0	166	0	0	0	45
Department of Transportation .....	1,704	0	76	0	0	0	0	0	1,628
Environmental Protection Agency .....	55	0	0	0	55	0	0	0	0
National Aero and Space Admin .....	578	0	404	0	174	0	0	0	0
National Science Foundation .....	7,282	0	494	0	6,788	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

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[Dollars in thousands]

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State and agency	Total	Intra-mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
California, total .....	12,651,125	2,259,305	4,359,351	0	2,591,493	2,604,564	750,160	65,498	20,754
Department of Agriculture .....	110,641	76,234	498	0	33,339	0	452	0	118
Department of Commerce .....	73,697	29,682	32,830	0	6,175	1,416	1,780	0	1,814
Department of Defense, research <sup>2</sup> .....	1,089,874	281,081	440,287	0	297,839	23,989	24,275	22,403	0
Department of Defense, total development <sup>3</sup> .....	4,731,699	1,545,955	3,068,219	0	32,945	49,099	18,556	16,925	0
Department of Energy .....	1,301,126	6,795	73,515	0	130,750	1,066,744	23,322	0	0
Department of Health & Human Svcs .....	2,246,113	6,772	101,933	0	1,509,214	44,388	556,921	23,144	3,741
Department of the Interior .....	92,302	82,138	1,630	0	8,286	0	85	0	163
Department of Transportation .....	29,028	1,945	12,580	0	1,430	43	0	0	13,030
Environmental Protection Agency .....	19,487	69	176	0	14,501	0	4,125	0	616
National Aero and Space Admin .....	2,516,462	228,573	609,395	0	167,051	1,418,604	88,736	2,831	1,272
National Science Foundation .....	440,696	61	18,288	0	389,963	281	31,908	195	0
Colorado, total .....	1,340,613	265,565	383,781	0	399,721	83,378	65,398	138,185	4,585
Department of Agriculture .....	39,028	26,193	0	0	12,775	0	44	0	16
Department of Commerce .....	104,219	91,562	3,095	0	9,360	0	0	0	202
Department of Defense, research <sup>2</sup> .....	92,175	9,314	46,077	0	34,261	30	2,493	0	0
Department of Defense, total development <sup>3</sup> .....	219,189	14,800	199,052	0	3,616	0	1,721	0	0
Department of Energy .....	161,803	2,443	5,661	0	11,203	0	4,311	138,185	0
Department of Health & Human Svcs .....	282,499	14,749	9,058	0	209,191	0	47,385	0	2,116
Department of the Interior .....	103,510	98,891	744	0	3,235	0	60	0	580
Department of Transportation .....	14,321	20	4,446	0	152	8,213	0	0	1,490
Environmental Protection Agency .....	6,293	73	1,210	0	3,432	0	1,442	0	136
National Aero and Space Admin .....	159,557	7,190	100,534	0	44,907	796	6,130	0	0
National Science Foundation .....	158,019	330	13,904	0	67,589	74,339	1,812	0	45
Connecticut, total .....	1,377,388	93,127	882,209	0	361,631	0	32,775	0	7,646
Department of Agriculture .....	11,398	2,809	0	0	7,622	0	30	0	937
Department of Commerce .....	8,087	1,246	3,013	0	2,982	0	0	0	846
Department of Defense, research <sup>2</sup> .....	55,364	433	38,847	0	13,861	0	2,223	0	0
Department of Defense, total development <sup>3</sup> .....	850,659	73,625	774,895	0	560	0	1,579	0	0
Department of Energy .....	30,508	0	19,384	0	11,124	0	0	0	0
Department of Health & Human Svcs .....	349,861	0	26,349	0	295,188	0	24,827	0	3,497
Department of the Interior .....	928	725	0	0	143	0	0	0	60
Department of Transportation .....	16,810	14,289	535	0	0	0	0	0	1,986
Environmental Protection Agency .....	1,367	0	111	0	1,051	0	0	0	205
National Aero and Space Admin .....	24,557	0	16,525	0	4,386	0	3,646	0	0
National Science Foundation .....	27,849	0	2,550	0	24,714	0	470	0	115
Delaware, total .....	70,170	3,146	10,596	0	53,230	0	1,306	0	1,892
Department of Agriculture .....	4,430	1,594	0	0	2,827	0	0	0	9
Department of Commerce .....	3,132	57	1,319	0	1,756	0	0	0	0
Department of Defense, research <sup>2</sup> .....	16,681	6	2,050	0	14,625	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	6,229	90	3,153	0	2,986	0	0	0	0
Department of Energy .....	3,438	883	0	0	2,555	0	0	0	0
Department of Health & Human Svcs .....	18,357	0	1,740	0	14,763	0	604	0	1,250
Department of the Interior .....	639	516	0	0	93	0	0	0	30
Department of Transportation .....	565	0	0	0	0	0	0	0	565
Environmental Protection Agency .....	132	0	70	0	24	0	0	0	38
National Aero and Space Admin .....	2,614	0	1,631	0	940	0	43	0	0
National Science Foundation .....	13,953	0	633	0	12,661	0	659	0	0

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			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
District of Columbia, total .....	2,605,890	1,818,717	343,963	0	193,918	0	246,445	131	2,716
Department of Agriculture .....	208,284	188,455	16,331	0	2,192	0	1,150	0	156
Department of Commerce .....	10,530	5,321	938	0	668	0	3,319	0	284
Department of Defense, research <sup>2</sup> .....	352,632	279,083	39,769	0	24,069	0	9,711	0	0
Department of Defense, total development <sup>3</sup> .....	828,991	670,989	135,973	0	18,220	0	3,678	131	0
Department of Energy .....	337,824	322,261	2,559	0	1,384	0	11,305	0	315
Department of Health & Human Svcs .....	321,752	59,798	26,408	0	130,688	0	103,739	0	1,119
Department of the Interior .....	2,034	1,758	0	0	225	0	51	0	0
Department of Transportation .....	192,875	77,946	105,003	0	3,203	0	6,229	0	494
Environmental Protection Agency .....	50,752	38,629	0	0	0	0	12,123	0	0
National Aero and Space Admin .....	217,035	170,476	15,899	0	6,518	0	23,904	0	238
National Science Foundation .....	83,181	4,001	1,083	0	6,751	0	71,236	0	110
Florida, total .....	2,648,421	865,362	1,269,435	0	476,702	0	24,405	0	12,517
Department of Agriculture .....	56,833	32,033	0	0	24,685	0	30	0	85
Department of Commerce .....	40,339	25,007	3,851	0	10,151	0	25	0	1,305
Department of Defense, research <sup>2</sup> .....	229,895	89,151	58,654	0	79,046	0	3,044	0	0
Department of Defense, total development <sup>3</sup> .....	1,647,344	541,827	1,086,642	0	15,275	0	3,600	0	0
Department of Energy .....	20,760	0	10,032	0	10,171	0	557	0	0
Department of Health & Human Svcs .....	250,707	0	11,942	0	226,977	0	8,928	0	2,860
Department of the Interior .....	21,445	18,851	622	0	1,801	0	0	0	171
Department of Transportation .....	9,817	0	1,133	0	1,789	0	0	0	6,895
Environmental Protection Agency .....	10,791	6,086	224	0	3,576	0	79	0	826
National Aero and Space Admin .....	276,084	152,407	94,803	0	22,257	0	6,617	0	0
National Science Foundation .....	84,406	0	1,532	0	80,974	0	1,525	0	375
Georgia, total .....	3,395,876	310,156	2,647,977	0	405,348	0	24,973	0	7,422
Department of Agriculture .....	68,931	48,731	0	0	20,168	0	12	0	20
Department of Commerce .....	2,668	261	1,016	0	1,120	0	0	0	271
Department of Defense, research <sup>2</sup> .....	57,869	12,195	12,559	0	27,420	0	5,695	0	0
Department of Defense, total development <sup>3</sup> .....	2,628,487	13,061	2,593,573	0	21,853	0	0	0	0
Department of Energy .....	43,876	171	30,426	0	8,073	0	5,206	0	0
Department of Health & Human Svcs .....	489,765	218,200	5,680	0	257,108	0	7,410	0	1,367
Department of the Interior .....	5,925	5,108	0	0	744	0	0	0	73
Department of Transportation .....	4,714	5	297	0	0	0	0	0	4,412
Environmental Protection Agency .....	12,845	9,926	0	0	2,272	0	588	0	59
National Aero and Space Admin .....	23,440	2,498	3,074	0	11,806	0	6,062	0	0
National Science Foundation .....	57,356	0	1,352	0	54,784	0	0	0	1,220
Hawaii, total .....	293,122	70,254	87,718	0	93,540	0	37,619	0	3,991
Department of Agriculture .....	27,862	14,375	0	0	7,517	0	5,923	0	47
Department of Commerce .....	24,449	16,527	2,197	0	4,966	0	0	0	759
Department of Defense, research <sup>2</sup> .....	18,929	230	8,502	0	10,197	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	105,436	31,324	63,927	0	2,285	0	7,900	0	0
Department of Energy .....	3,580	0	0	0	3,001	0	579	0	0
Department of Health & Human Svcs .....	57,992	12	12,347	0	33,834	0	9,257	0	2,542
Department of the Interior .....	7,837	6,835	0	0	1,002	0	0	0	0
Department of Transportation .....	642	0	0	0	0	0	0	0	642
Environmental Protection Agency .....	416	0	0	0	416	0	0	0	0
National Aero and Space Admin .....	27,432	951	355	0	12,561	0	13,564	0	1
National Science Foundation .....	18,547	0	390	0	17,761	0	396	0	0

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			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Idaho, total .....	209,344	21,815	39,762	115,452	29,927	0	0	0	2,388
Department of Agriculture .....	22,029	16,086	0	0	5,943	0	0	0	0
Department of Commerce .....	1,069	337	630	0	102	0	0	0	0
Department of Defense, research <sup>2</sup> .....	6,026	163	0	944	4,919	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	5,713	1,084	3,399	1,230	0	0	0	0	0
Department of Energy .....	152,514	10	35,121	112,878	4,505	0	0	0	0
Department of Health & Human Svcs .....	8,796	0	487	0	7,139	0	0	0	1,170
Department of the Interior .....	4,676	3,853	0	0	823	0	0	0	0
Department of Transportation .....	1,357	2	26	400	0	0	0	0	929
Environmental Protection Agency .....	356	0	0	0	67	0	0	0	289
National Aero and Space Admin .....	2,878	280	0	0	2,598	0	0	0	0
National Science Foundation .....	3,930	0	99	0	3,831	0	0	0	0
Illinois, total .....	1,693,883	78,766	282,268	0	742,005	481,578	91,301	0	17,965
Department of Agriculture .....	55,383	39,253	30	0	16,023	0	9	0	68
Department of Commerce .....	9,075	270	5,177	0	588	79	1,326	0	1,635
Department of Defense, research <sup>2</sup> .....	101,925	17,718	15,966	0	66,433	1,651	157	0	0
Department of Defense, total development <sup>3</sup> .....	168,716	15,226	142,690	0	7,411	2,870	519	0	0
Department of Energy .....	534,527	3,215	2,831	0	46,793	476,697	4,991	0	0
Department of Health & Human Svcs .....	617,827	173	106,696	0	418,657	0	80,155	0	12,146
Department of the Interior .....	2,787	2,128	1	0	623	0	35	0	0
Department of Transportation .....	8,272	190	2,468	0	1,430	0	68	0	4,116
Environmental Protection Agency .....	857	0	0	0	857	0	0	0	0
National Aero and Space Admin .....	16,367	593	3,351	0	11,105	221	1,097	0	0
National Science Foundation .....	178,147	0	3,058	0	172,085	60	2,944	0	0
Indiana, total .....	534,678	55,795	199,134	0	263,115	0	12,172	0	4,462
Department of Agriculture .....	20,018	6,813	89	0	13,076	0	7	0	33
Department of Commerce .....	1,642	122	75	0	588	0	857	0	0
Department of Defense, research <sup>2</sup> .....	72,758	8,451	38,357	0	21,970	0	3,980	0	0
Department of Defense, total development <sup>3</sup> .....	191,108	37,878	152,819	0	411	0	0	0	0
Department of Energy .....	18,639	0	280	0	18,359	0	0	0	0
Department of Health & Human Svcs .....	156,099	153	4,599	0	143,807	0	6,654	0	886
Department of the Interior .....	2,578	2,017	0	0	272	0	0	0	289
Department of Transportation .....	3,359	0	0	0	105	0	0	0	3,254
Environmental Protection Agency .....	861	0	70	0	692	0	99	0	0
National Aero and Space Admin .....	8,036	361	2,806	0	4,294	0	575	0	0
National Science Foundation .....	59,580	0	39	0	59,541	0	0	0	0
Iowa, total .....	324,263	39,496	24,236	0	229,838	20,726	4,569	0	5,398
Department of Agriculture .....	57,537	37,625	0	0	19,871	0	25	0	16
Department of Commerce .....	1,658	157	731	0	270	0	0	0	500
Department of Defense, research <sup>2</sup> .....	7,034	6	1,520	0	5,380	128	0	0	0
Department of Defense, total development <sup>3</sup> .....	21,437	7	19,092	0	2,338	0	0	0	0
Department of Energy .....	29,597	0	72	0	5,984	20,371	3,170	0	0
Department of Health & Human Svcs .....	163,947	0	1,289	0	158,442	0	1,374	0	2,842
Department of the Interior .....	2,522	1,701	0	0	285	0	0	0	536
Department of Transportation .....	10,685	0	5	0	8,949	227	0	0	1,504
Environmental Protection Agency .....	762	0	0	0	762	0	0	0	0
National Aero and Space Admin .....	7,922	0	1,327	0	6,595	0	0	0	0
National Science Foundation .....	21,162	0	200	0	20,962	0	0	0	0

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Kansas, total .....	306,656	24,928	141,900	0	124,705	0	4,623	0	10,500
Department of Agriculture .....	31,503	9,490	0	0	22,003	0	10	0	0
Department of Commerce .....	801	0	765	0	36	0	0	0	0
Department of Defense, research <sup>2</sup> .....	61,641	10,506	46,286	0	4,849	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	15,654	1,806	13,319	0	529	0	0	0	0
Department of Energy .....	6,740	0	75	0	6,665	0	0	0	0
Department of Health & Human Svcs .....	154,102	723	79,883	0	61,111	0	3,374	0	9,011
Department of the Interior .....	2,707	2,316	0	0	391	0	0	0	0
Department of Transportation .....	7,597	0	0	0	6,108	0	0	0	1,489
Environmental Protection Agency .....	1,449	87	0	0	961	0	401	0	0
National Aero and Space Admin .....	6,027	0	475	0	4,714	0	838	0	0
National Science Foundation .....	18,435	0	1,097	0	17,338	0	0	0	0
Kentucky, total .....	271,690	13,375	100,566	0	138,746	0	4,354	0	14,649
Department of Agriculture .....	14,332	3	0	0	14,319	0	10	0	0
Department of Commerce .....	1,838	55	1,068	0	0	0	0	0	715
Department of Defense, research <sup>2</sup> .....	21,206	2,642	4,509	0	14,055	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	17,750	9,552	7,903	0	295	0	0	0	0
Department of Energy .....	2,276	0	70	0	2,206	0	0	0	0
Department of Health & Human Svcs .....	190,417	44	86,413	0	88,845	0	3,413	0	11,702
Department of the Interior .....	1,835	1,079	0	0	682	0	0	0	74
Department of Transportation .....	2,378	0	0	0	220	0	0	0	2,158
Environmental Protection Agency .....	1,157	0	0	0	976	0	181	0	0
National Aero and Space Admin .....	3,021	0	175	0	2,096	0	750	0	0
National Science Foundation .....	15,480	0	428	0	15,052	0	0	0	0
Louisiana, total .....	275,788	74,386	39,393	0	151,554	0	3,815	0	6,640
Department of Agriculture .....	44,259	33,600	0	0	10,619	0	40	0	0
Department of Commerce .....	4,459	142	742	0	3,575	0	0	0	0
Department of Defense, research <sup>2</sup> .....	9,781	1,291	1,013	0	7,350	0	127	0	0
Department of Defense, total development <sup>3</sup> .....	70,044	22,842	35,141	0	12,061	0	0	0	0
Department of Energy .....	5,329	0	0	0	5,329	0	0	0	0
Department of Health & Human Svcs .....	92,015	4,328	1,296	0	83,369	0	2,934	0	88
Department of the Interior .....	15,517	12,168	962	0	2,142	0	0	0	245
Department of Transportation .....	2,059	0	4	0	73	0	0	0	1,982
Environmental Protection Agency .....	4,448	0	0	0	4,330	0	0	0	118
National Aero and Space Admin .....	5,944	15	36	0	5,193	0	700	0	0
National Science Foundation .....	21,933	0	199	0	17,513	0	14	0	4,207
Maine, total .....	450,735	9,433	345,460	0	28,716	0	62,256	0	4,870
Department of Agriculture .....	6,908	1,693	0	0	5,080	0	135	0	0
Department of Commerce .....	3,134	700	0	0	1,274	0	110	0	1,050
Department of Defense, research <sup>2</sup> .....	9,773	320	4,507	0	4,435	0	511	0	0
Department of Defense, total development <sup>3</sup> .....	343,137	4,696	334,198	0	2,248	0	1,995	0	0
Department of Energy .....	1,198	0	600	0	0	0	598	0	0
Department of Health & Human Svcs .....	67,646	0	5,889	0	2,741	0	56,108	0	2,908
Department of the Interior .....	2,712	2,024	17	0	603	0	0	0	68
Department of Transportation .....	1,915	0	50	0	1,021	0	0	0	844
Environmental Protection Agency .....	168	0	0	0	168	0	0	0	0
National Aero and Space Admin .....	1,820	0	0	0	788	0	1,032	0	0
National Science Foundation .....	12,324	0	199	0	10,358	0	1,767	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Maryland, total .....	9,290,382	5,435,114	2,060,408	212,689	1,143,680	0	430,301	697	7,493
Department of Agriculture .....	157,181	146,783	109	0	9,113	0	996	0	180
Department of Commerce .....	358,811	343,331	4,154	0	8,984	0	1,825	0	517
Department of Defense, research <sup>2</sup> .....	523,702	301,213	127,126	0	90,636	0	4,030	697	0
Department of Defense, total development <sup>3</sup> .....	2,237,868	1,058,239	984,315	0	181,121	0	14,129	0	64
Department of Energy .....	50,433	25,155	6,967	0	13,566	0	4,745	0	0
Department of Health & Human Svcs .....	4,478,704	3,229,303	169,481	212,689	576,363	0	286,683	0	4,185
Department of the Interior .....	14,773	14,409	79	0	199	0	0	0	86
Department of Transportation .....	25,123	8,740	9,573	0	4,753	0	0	0	2,057
Environmental Protection Agency .....	14,933	140	5,057	0	8,072	0	1,598	0	66
National Aero and Space Admin .....	1,344,974	305,570	750,083	0	185,961	0	103,022	0	338
National Science Foundation .....	83,880	2,231	3,464	0	64,912	0	13,273	0	0
Massachusetts, total .....	4,318,139	362,811	1,365,472	0	1,109,466	236,407	1,105,243	130,073	8,667
Department of Agriculture .....	27,713	17,298	1,110	0	8,268	0	1,037	0	0
Department of Commerce .....	25,257	7,222	10,188	0	4,479	108	1,097	0	2,163
Department of Defense, research <sup>2</sup> .....	475,851	121,347	151,957	0	138,317	44,134	19,076	1,020	0
Department of Defense, total development <sup>3</sup> .....	1,522,003	144,095	1,003,201	0	39,561	192,045	14,048	129,053	0
Department of Energy .....	79,153	0	1,819	0	72,552	0	4,782	0	0
Department of Health & Human Svcs .....	1,689,966	1,511	117,417	0	612,625	0	954,530	0	3,883
Department of the Interior .....	18,362	17,163	403	0	662	0	134	0	0
Department of Transportation .....	54,700	39,670	10,161	0	2,488	120	0	0	2,261
Environmental Protection Agency .....	15,435	69	1,775	0	3,768	0	9,463	0	360
National Aero and Space Admin .....	188,163	14,436	38,582	0	51,538	0	83,607	0	0
National Science Foundation .....	221,536	0	28,859	0	175,208	0	17,469	0	0
Michigan, total .....	1,175,653	119,244	372,828	0	646,016	0	23,812	0	13,753
Department of Agriculture .....	30,491	7,359	59	0	23,073	0	0	0	0
Department of Commerce .....	21,399	7,198	9,670	0	2,218	0	1,270	0	1,043
Department of Defense, research <sup>2</sup> .....	111,073	26,438	28,667	0	55,612	0	356	0	0
Department of Defense, total development <sup>3</sup> .....	368,689	71,032	283,683	0	13,349	0	625	0	0
Department of Energy .....	21,536	0	553	0	20,983	0	0	0	0
Department of Health & Human Svcs .....	467,422	749	28,936	0	411,969	0	18,562	0	7,206
Department of the Interior .....	6,010	5,729	0	0	135	0	0	0	146
Department of Transportation .....	22,059	0	11,400	0	5,301	0	0	0	5,358
Environmental Protection Agency .....	6,001	739	495	0	2,507	0	2,260	0	0
National Aero and Space Admin .....	17,436	0	6,780	0	10,626	0	30	0	0
National Science Foundation .....	103,537	0	2,585	0	100,243	0	709	0	0
Minnesota, total .....	900,936	32,903	419,621	0	285,634	0	152,754	0	10,024
Department of Agriculture .....	33,006	18,949	0	0	13,563	0	6	0	488
Department of Commerce .....	5,784	132	2,567	0	1,616	0	969	0	500
Department of Defense, research <sup>2</sup> .....	58,867	426	32,962	0	21,456	0	4,023	0	0
Department of Defense, total development <sup>3</sup> .....	391,798	584	365,960	0	3,742	0	21,512	0	0
Department of Energy .....	12,613	0	2,370	0	10,243	0	0	0	0
Department of Health & Human Svcs .....	327,333	0	9,485	0	186,590	0	125,499	0	5,759
Department of the Interior .....	4,333	3,165	0	0	790	0	0	0	378
Department of Transportation .....	2,862	95	29	0	0	0	75	0	2,663
Environmental Protection Agency .....	15,345	9,552	0	0	5,557	0	0	0	236
National Aero and Space Admin .....	9,006	0	4,348	0	4,385	0	273	0	0
National Science Foundation .....	39,989	0	1,900	0	37,692	0	397	0	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Mississippi, total .....	402,085	181,275	87,181	0	122,606	0	7,933	0	3,090
Department of Agriculture .....	83,943	59,516	0	0	22,831	0	1,596	0	0
Department of Commerce .....	5,306	1,939	290	0	3,077	0	0	0	0
Department of Defense, research <sup>2</sup> .....	83,474	52,191	5,848	0	25,435	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	108,538	41,834	53,331	0	13,373	0	0	0	0
Department of Energy .....	3,812	0	0	0	3,812	0	0	0	0
Department of Health & Human Svcs .....	34,311	0	288	0	33,966	0	0	0	57
Department of the Interior .....	4,694	3,819	13	0	175	0	570	0	117
Department of Transportation .....	2,375	0	0	0	110	0	0	0	2,265
Environmental Protection Agency .....	901	0	0	0	535	0	0	0	366
National Aero and Space Admin .....	67,670	21,906	26,712	0	13,000	0	5,767	0	285
National Science Foundation .....	7,061	70	699	0	6,292	0	0	0	0
Missouri, total .....	909,440	42,889	396,393	0	427,822	0	36,187	0	6,149
Department of Agriculture .....	33,639	16,206	0	0	17,433	0	0	0	0
Department of Commerce .....	1,800	45	1,700	0	55	0	0	0	0
Department of Defense, research <sup>2</sup> .....	46,261	4,627	34,152	0	7,482	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	348,033	7,117	340,052	0	864	0	0	0	0
Department of Energy .....	7,255	0	748	0	6,152	0	355	0	0
Department of Health & Human Svcs .....	399,621	637	2,869	0	362,415	0	31,213	0	2,487
Department of the Interior .....	17,145	14,257	1,520	0	786	0	0	0	582
Department of Transportation .....	4,030	0	7	0	710	0	364	0	2,949
Environmental Protection Agency .....	3,848	0	0	0	3,717	0	0	0	131
National Aero and Space Admin .....	24,711	0	15,182	0	6,022	0	3,507	0	0
National Science Foundation .....	23,097	0	163	0	22,186	0	748	0	0
Montana, total .....	136,825	44,039	11,802	0	60,772	0	17,202	0	3,010
Department of Agriculture .....	26,349	14,396	24	0	9,889	0	2,040	0	0
Department of Commerce .....	1,437	129	0	0	847	0	461	0	0
Department of Defense, research <sup>2</sup> .....	12,603	8,982	165	0	3,456	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	5,817	7	4,721	0	1,089	0	0	0	0
Department of Energy .....	2,179	0	418	0	1,137	0	624	0	0
Department of Health & Human Svcs .....	44,144	14,415	2,386	0	16,475	0	9,868	0	1,000
Department of the Interior .....	7,595	5,913	0	0	1,348	0	0	0	334
Department of Transportation .....	2,234	0	0	0	739	0	0	0	1,495
Environmental Protection Agency .....	3,297	0	140	0	2,976	0	0	0	181
National Aero and Space Admin .....	15,822	197	2,103	0	12,525	0	997	0	0
National Science Foundation .....	15,348	0	1,845	0	10,291	0	3,212	0	0
Nebraska, total .....	125,210	26,014	9,099	0	80,498	0	5,955	0	3,644
Department of Agriculture .....	42,039	22,868	0	0	19,171	0	0	0	0
Department of Commerce .....	1,256	95	572	0	68	0	0	0	521
Department of Defense, research <sup>2</sup> .....	4,999	406	740	0	3,853	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	3,168	1,454	1,366	0	348	0	0	0	0
Department of Energy .....	1,876	0	0	0	1,876	0	0	0	0
Department of Health & Human Svcs .....	52,841	1	1,707	0	43,045	0	5,955	0	2,133
Department of the Interior .....	1,497	1,190	0	0	307	0	0	0	0
Department of Transportation .....	1,282	0	0	0	292	0	0	0	990
Environmental Protection Agency .....	1,225	0	0	0	1,225	0	0	0	0
National Aero and Space Admin .....	2,238	0	246	0	1,992	0	0	0	0
National Science Foundation .....	12,789	0	4,468	0	8,321	0	0	0	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Nevada, total .....	295,413	34,120	210,797	0	43,294	0	3,521	0	3,681
Department of Agriculture .....	5,464	471	0	0	4,958	0	0	0	35
Department of Commerce .....	1,294	37	4	0	1,218	0	0	0	35
Department of Defense, research <sup>2</sup> .....	16,418	13,264	968	0	2,186	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	14,250	4,990	8,960	0	300	0	0	0	0
Department of Energy .....	190,890	35	187,405	0	2,107	0	1,343	0	0
Department of Health & Human Svcs .....	34,798	0	11,283	0	20,008	0	1,683	0	1,824
Department of the Interior .....	4,289	2,974	0	0	1,315	0	0	0	0
Department of Transportation .....	2,226	0	1,234	0	67	0	0	0	925
Environmental Protection Agency .....	12,771	11,946	0	0	825	0	0	0	0
National Aero and Space Admin .....	4,250	403	841	0	1,649	0	495	0	862
National Science Foundation .....	8,763	0	102	0	8,661	0	0	0	0
New Hampshire, total .....	418,645	42,973	259,932	0	102,545	0	8,052	0	5,143
Department of Agriculture .....	7,318	4,107	0	0	3,202	0	9	0	0
Department of Commerce .....	12,926	145	25	0	8,865	0	3,651	0	240
Department of Defense, research <sup>2</sup> .....	52,030	15,376	32,019	0	3,789	0	846	0	0
Department of Defense, total development <sup>3</sup> .....	235,714	19,560	214,637	0	585	0	932	0	0
Department of Energy .....	2,104	0	1,441	0	663	0	0	0	0
Department of Health & Human Svcs .....	70,189	0	4,219	0	60,516	0	1,383	0	4,071
Department of the Interior .....	1,758	1,213	0	0	484	0	9	0	52
Department of Transportation .....	2,764	900	15	0	1,178	0	0	0	671
Environmental Protection Agency .....	1,593	0	70	0	1,414	0	0	0	109
National Aero and Space Admin .....	16,794	293	6,498	0	8,781	0	1,222	0	0
National Science Foundation .....	15,455	1,379	1,008	0	13,068	0	0	0	0
New Jersey, total .....	1,591,939	523,933	675,108	0	303,781	64,254	18,497	0	6,366
Department of Agriculture .....	9,031	6	0	0	9,025	0	0	0	0
Department of Commerce .....	20,908	16,456	3,536	0	916	0	0	0	0
Department of Defense, research <sup>2</sup> .....	149,711	55,864	50,657	0	42,824	160	206	0	0
Department of Defense, total development <sup>3</sup> .....	972,975	408,042	559,089	0	5,157	0	687	0	0
Department of Energy .....	84,436	168	4,350	0	15,113	64,094	711	0	0
Department of Health & Human Svcs .....	194,035	450	17,790	0	156,892	0	16,216	0	2,687
Department of the Interior .....	4,800	3,425	546	0	442	0	0	0	387
Department of Transportation .....	61,865	31,253	26,222	0	1,098	0	0	0	3,292
Environmental Protection Agency .....	6,217	4,057	295	0	1,632	0	233	0	0
National Aero and Space Admin .....	24,536	3,992	9,738	0	10,497	0	309	0	0
National Science Foundation .....	63,425	220	2,885	0	60,185	0	135	0	0
New Mexico, total .....	2,580,734	493,547	181,234	809,280	150,423	927,031	16,440	0	2,779
Department of Agriculture .....	11,859	6,603	20	0	5,183	0	4	0	49
Department of Commerce .....	4,055	112	1,163	1	1,963	0	0	0	816
Department of Defense, research <sup>2</sup> .....	282,886	191,781	39,527	19,678	21,405	8,106	2,389	0	0
Department of Defense, total development <sup>3</sup> .....	493,999	257,570	122,585	81,135	13,276	15,352	4,079	0	2
Department of Energy .....	1,645,797	18,846	2,130	702,343	30,158	889,561	2,759	0	0
Department of Health & Human Svcs .....	75,891	295	3,842	0	53,314	13,370	4,781	0	289
Department of the Interior .....	4,012	3,414	0	0	239	0	0	0	359
Department of Transportation .....	8,660	0	493	6,123	564	0	263	0	1,217
Environmental Protection Agency .....	912	0	0	0	182	0	730	0	0
National Aero and Space Admin .....	34,098	14,816	10,083	0	8,165	592	395	0	47
National Science Foundation .....	18,565	110	1,391	0	15,974	50	1,040	0	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
New York, total .....	3,336,229	270,926	779,713	0	1,609,360	0	336,896	248,438	90,896
Department of Agriculture .....	51,427	24,885	0	0	23,741	0	2,801	0	0
Department of Commerce .....	27,564	4,554	11,558	0	9,419	0	0	21	2,012
Department of Defense, research <sup>2</sup> .....	328,114	167,250	61,699	0	96,569	0	2,396	200	0
Department of Defense, total development <sup>3</sup> .....	428,939	55,956	356,988	0	14,094	0	1,735	166	0
Department of Energy .....	587,131	1,099	272,178	0	68,807	0	5,328	239,719	0
Department of Health & Human Svcs .....	1,581,631	9,351	45,950	0	1,137,745	0	300,752	7,741	80,092
Department of the Interior .....	5,462	4,584	60	0	725	0	79	0	14
Department of Transportation .....	18,155	1	8,700	0	2,439	0	4	0	7,011
Environmental Protection Agency .....	18,580	90	2,362	0	10,812	0	5,157	0	159
National Aero and Space Admin .....	53,789	3,156	15,332	0	30,479	0	4,231	591	0
National Science Foundation .....	235,437	0	4,886	0	214,530	0	14,413	0	1,608
North Carolina, total .....	1,400,937	441,048	86,176	0	757,761	0	108,543	0	7,409
Department of Agriculture .....	47,952	21,802	0	0	26,150	0	0	0	0
Department of Commerce .....	13,570	7,806	1,922	0	2,424	0	618	0	800
Department of Defense, research <sup>2</sup> .....	83,972	20,898	14,882	0	44,300	0	3,892	0	0
Department of Defense, total development <sup>3</sup> .....	49,346	16,170	29,360	0	3,564	0	252	0	0
Department of Energy .....	15,826	246	0	0	13,750	0	1,830	0	0
Department of Health & Human Svcs .....	985,689	297,646	17,399	0	573,318	0	94,158	0	3,168
Department of the Interior .....	4,401	3,187	0	0	811	0	403	0	0
Department of Transportation .....	6,033	0	80	0	2,512	0	0	0	3,441
Environmental Protection Agency .....	99,163	73,293	6,720	0	16,531	0	2,619	0	0
National Aero and Space Admin .....	24,759	0	11,615	0	8,576	0	4,568	0	0
National Science Foundation .....	70,226	0	4,198	0	65,825	0	203	0	0
North Dakota, total .....	77,903	27,871	7,489	0	39,564	0	1,844	0	1,135
Department of Agriculture .....	32,863	24,587	0	0	8,276	0	0	0	0
Department of Commerce .....	782	32	0	0	750	0	0	0	0
Department of Defense, research <sup>2</sup> .....	4,231	10	0	0	4,221	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	2,397	19	210	0	2,168	0	0	0	0
Department of Energy .....	6,531	0	0	0	6,531	0	0	0	0
Department of Health & Human Svcs .....	17,400	0	6,649	0	8,857	0	1,844	0	50
Department of the Interior .....	3,437	3,223	0	0	142	0	0	0	72
Department of Transportation .....	1,325	0	0	0	412	0	0	0	913
Environmental Protection Agency .....	2,012	0	70	0	1,842	0	0	0	100
National Aero and Space Admin .....	3,217	0	0	0	3,217	0	0	0	0
National Science Foundation .....	3,708	0	560	0	3,148	0	0	0	0
Ohio, total .....	2,326,954	906,451	685,198	0	534,966	0	193,898	0	6,441
Department of Agriculture .....	25,143	9,205	8	0	15,915	0	0	0	15
Department of Commerce .....	5,941	0	1,327	0	426	0	4,188	0	0
Department of Defense, research <sup>2</sup> .....	706,780	452,280	165,395	0	58,317	0	30,788	0	0
Department of Defense, total development <sup>3</sup> .....	601,261	195,835	388,576	0	12,654	0	4,196	0	0
Department of Energy .....	20,031	0	7,048	0	12,696	0	287	0	0
Department of Health & Human Svcs .....	535,009	36,485	17,826	0	355,253	0	124,786	0	659
Department of the Interior .....	3,326	2,729	0	0	226	0	0	0	371
Department of Transportation .....	21,258	9,979	3,331	0	1,554	0	2,263	0	4,131
Environmental Protection Agency .....	57,705	37,730	15,269	0	2,808	0	1,773	0	125
National Aero and Space Admin .....	290,773	162,208	81,223	0	20,850	0	25,352	0	1,140
National Science Foundation .....	59,727	0	5,195	0	54,267	0	265	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra-mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
Oklahoma, total .....	225,762	53,475	68,664	0	80,482	0	20,161	0	2,980
Department of Agriculture .....	20,111	11,515	0	0	8,548	0	0	0	48
Department of Commerce .....	10,098	6,641	6	0	2,798	0	653	0	0
Department of Defense, research <sup>2</sup> .....	21,637	6,754	11,605	0	3,278	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	55,492	7,405	47,793	0	294	0	0	0	0
Department of Energy .....	8,491	1,702	1,011	0	5,778	0	0	0	0
Department of Health & Human Svcs .....	57,257	13	883	0	37,145	0	18,180	0	1,036
Department of the Interior .....	2,135	1,820	0	0	302	0	0	0	13
Department of Transportation .....	15,725	9,945	3,857	0	40	0	0	0	1,883
Environmental Protection Agency .....	9,447	6,036	2,138	0	1,273	0	0	0	0
National Aero and Space Admin .....	8,195	1,644	594	0	5,269	0	688	0	0
National Science Foundation .....	17,174	0	777	0	15,757	0	640	0	0
Oregon, total .....	522,640	81,701	132,880	0	250,262	0	37,517	0	20,280
Department of Agriculture .....	44,930	30,135	0	0	14,662	0	74	0	59
Department of Commerce .....	15,397	9,433	1,137	0	1,880	0	1,443	0	1,504
Department of Defense, research <sup>2</sup> .....	22,666	762	2,932	0	16,741	0	2,231	0	0
Department of Defense, total development <sup>3</sup> .....	4,995	28	2,493	0	2,329	0	145	0	0
Department of Energy .....	36,308	21,610	7,798	0	5,379	0	521	0	1,000
Department of Health & Human Svcs .....	318,302	0	113,373	0	157,167	0	32,490	0	15,272
Department of the Interior .....	10,384	8,949	0	0	1,217	0	0	0	218
Department of Transportation .....	2,111	20	504	0	0	0	0	0	1,587
Environmental Protection Agency .....	14,052	10,511	0	0	2,891	0	10	0	640
National Aero and Space Admin .....	11,503	253	3,101	0	7,546	0	603	0	0
National Science Foundation .....	41,992	0	1,542	0	40,450	0	0	0	0
Pennsylvania, total .....	2,601,636	177,837	876,336	0	1,236,427	17,891	286,384	0	6,761
Department of Agriculture .....	57,685	42,446	0	0	13,906	0	1,333	0	0
Department of Commerce .....	7,762	112	3,155	0	3,681	0	345	0	469
Department of Defense, research <sup>2</sup> .....	165,923	10,484	37,974	0	108,848	0	8,617	0	0
Department of Defense, total development <sup>3</sup> .....	671,690	52,474	500,877	0	59,326	17,891	41,122	0	0
Department of Energy .....	391,888	46,273	297,939	0	37,876	0	9,800	0	0
Department of Health & Human Svcs .....	1,110,494	20,875	22,635	0	850,181	0	216,207	0	596
Department of the Interior .....	4,909	3,747	0	0	769	0	240	0	153
Department of Transportation .....	9,115	43	2,338	0	964	0	227	0	5,543
Environmental Protection Agency .....	6,134	100	70	0	4,759	0	1,205	0	0
National Aero and Space Admin .....	44,872	1,283	10,900	0	31,159	0	1,530	0	0
National Science Foundation .....	131,164	0	448	0	124,958	0	5,758	0	0
Rhode Island, total .....	437,455	253,826	41,595	0	91,827	0	48,825	0	1,382
Department of Agriculture .....	2,086	5	0	0	2,029	0	52	0	0
Department of Commerce .....	3,768	1,181	671	0	1,911	0	5	0	0
Department of Defense, research <sup>2</sup> .....	55,664	32,689	6,618	0	16,211	0	146	0	0
Department of Defense, total development <sup>3</sup> .....	219,520	188,491	30,502	0	527	0	0	0	0
Department of Energy .....	2,508	0	0	0	2,399	0	109	0	0
Department of Health & Human Svcs .....	114,755	21,055	3,070	0	42,528	0	47,482	0	620
Department of the Interior .....	2,998	1,383	303	0	1,312	0	0	0	0
Department of Transportation .....	901	0	139	0	0	0	0	0	762
Environmental Protection Agency .....	9,308	9,022	0	0	261	0	25	0	0
National Aero and Space Admin .....	3,629	0	292	0	3,161	0	176	0	0
National Science Foundation .....	22,318	0	0	0	21,488	0	830	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
South Carolina, total .....	314,287	54,738	48,064	38,915	142,167	0	22,433	0	7,970
Department of Agriculture .....	19,224	9,924	0	0	9,257	0	43	0	0
Department of Commerce .....	15,661	11,514	1,459	0	1,691	0	0	0	997
Department of Defense, research <sup>2</sup> .....	20,686	2,895	2,998	0	13,397	0	1,396	0	0
Department of Defense, total development <sup>3</sup> .....	75,320	23,504	28,964	647	8,662	0	13,543	0	0
Department of Energy .....	50,099	0	1,855	38,268	9,914	0	62	0	0
Department of Health & Human Svcs .....	97,972	0	12,130	0	78,575	0	2,978	0	4,289
Department of the Interior .....	3,220	2,564	0	0	310	0	0	0	346
Department of Transportation .....	2,567	0	24	0	408	0	0	0	2,135
Environmental Protection Agency .....	877	0	0	0	174	0	500	0	203
National Aero and Space Admin .....	5,346	0	34	0	3,316	0	1,996	0	0
National Science Foundation .....	23,315	4,337	600	0	16,463	0	1,915	0	0
South Dakota, total .....	54,941	20,534	5,374	0	26,064	0	938	0	2,031
Department of Agriculture .....	7,823	3,918	0	0	3,828	0	0	0	77
Department of Commerce .....	953	72	0	0	6	0	0	0	875
Department of Defense, research <sup>2</sup> .....	5,084	22	18	0	5,044	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	95	3	92	0	0	0	0	0	0
Department of Energy .....	258	0	258	0	0	0	0	0	0
Department of Health & Human Svcs .....	10,994	0	2,256	0	7,750	0	938	0	50
Department of the Interior .....	14,077	11,276	2,300	0	501	0	0	0	0
Department of Transportation .....	888	0	0	0	0	0	0	0	888
Environmental Protection Agency .....	141	0	0	0	0	0	0	0	141
National Aero and Space Admin .....	6,228	5,243	0	0	985	0	0	0	0
National Science Foundation .....	8,400	0	450	0	7,950	0	0	0	0
Tennessee, total .....	844,743	100,934	61,060	0	293,201	11,008	43,099	330,885	4,556
Department of Agriculture .....	9,887	0	0	0	9,858	0	0	0	29
Department of Commerce .....	3,276	893	68	0	2,110	0	0	205	0
Department of Defense, research <sup>2</sup> .....	48,371	17,569	10,525	0	15,489	744	0	4,044	0
Department of Defense, total development <sup>3</sup> .....	99,651	70,799	18,849	0	822	714	0	8,467	0
Department of Energy .....	344,249	510	10,908	0	10,595	8,365	201	313,670	0
Department of Health & Human Svcs .....	272,246	1,644	2,984	0	223,673	0	42,006	0	1,939
Department of the Interior .....	4,979	3,620	55	0	1,244	0	60	0	0
Department of Transportation .....	5,925	702	362	0	446	1,185	0	642	2,588
Environmental Protection Agency .....	972	0	360	0	164	0	448	0	0
National Aero and Space Admin .....	31,147	5,197	16,025	0	6,068	0	0	3,857	0
National Science Foundation .....	24,040	0	924	0	22,732	0	384	0	0
Texas, total .....	2,925,350	526,748	1,151,597	0	1,136,115	0	96,999	0	13,891
Department of Agriculture .....	87,336	60,570	0	0	26,619	0	36	0	111
Department of Commerce .....	16,549	437	10,736	0	2,837	0	1,659	0	880
Department of Defense, research <sup>2</sup> .....	213,053	57,695	61,955	0	84,729	0	8,674	0	0
Department of Defense, total development <sup>3</sup> .....	880,519	116,240	713,968	0	47,311	0	3,000	0	0
Department of Energy .....	42,683	0	13,761	0	28,661	0	50	0	211
Department of Health & Human Svcs .....	879,642	108	18,567	0	794,207	0	65,103	0	1,657
Department of the Interior .....	11,165	6,400	374	0	4,194	0	25	0	172
Department of Transportation .....	12,873	170	1,608	0	1,121	0	0	0	9,974
Environmental Protection Agency .....	7,678	0	815	0	4,898	0	1,419	0	546
National Aero and Space Admin .....	673,617	285,003	327,725	0	44,981	0	15,568	0	340
National Science Foundation .....	100,235	125	2,088	0	96,557	0	1,465	0	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Utah, total .....	395,097	82,407	116,000	0	189,428	0	4,979	0	2,283
Department of Agriculture .....	19,472	11,620	0	0	7,805	0	0	0	47
Department of Commerce .....	1,514	71	1,173	0	270	0	0	0	0
Department of Defense, research <sup>2</sup> .....	40,506	15,282	12,386	0	12,762	0	76	0	0
Department of Defense, total development <sup>3</sup> .....	141,296	49,509	89,912	0	1,875	0	0	0	0
Department of Energy .....	12,291	0	2,025	0	9,972	0	294	0	0
Department of Health & Human Svcs .....	131,605	0	8,379	0	119,288	0	3,702	0	236
Department of the Interior .....	5,484	3,850	0	0	1,405	0	0	0	229
Department of Transportation .....	3,773	1,996	4	0	2	0	0	0	1,771
Environmental Protection Agency .....	1,664	0	0	0	1,664	0	0	0	0
National Aero and Space Admin .....	9,474	79	969	0	8,331	0	95	0	0
National Science Foundation .....	28,018	0	1,152	0	26,054	0	812	0	0
Vermont, total .....	112,704	5,165	34,571	0	68,289	0	1,534	0	3,145
Department of Agriculture .....	7,376	1,954	207	0	5,200	0	15	0	0
Department of Commerce .....	1,141	0	0	0	1,141	0	0	0	0
Department of Defense, research <sup>2</sup> .....	901	88	165	0	648	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	32,770	2,482	30,288	0	0	0	0	0	0
Department of Energy .....	1,034	0	33	0	1,001	0	0	0	0
Department of Health & Human Svcs .....	59,611	0	1,098	0	54,954	0	1,509	0	2,050
Department of the Interior .....	1,041	641	0	0	272	0	10	0	118
Department of Transportation .....	752	0	0	0	0	0	0	0	752
Environmental Protection Agency .....	379	0	0	0	154	0	0	0	225
National Aero and Space Admin .....	1,113	0	917	0	196	0	0	0	0
National Science Foundation .....	6,586	0	1,863	0	4,723	0	0	0	0
Virginia, total .....	4,809,863	1,540,051	2,553,434	0	359,145	66,582	92,596	189,030	9,025
Department of Agriculture .....	14,634	905	0	0	12,449	0	1,280	0	0
Department of Commerce .....	12,884	2,274	7,085	0	3,134	0	391	0	0
Department of Defense, research <sup>2</sup> .....	610,283	208,105	332,310	0	48,002	400	7,614	13,852	0
Department of Defense, total development <sup>3</sup> .....	3,019,111	977,802	1,849,709	0	16,227	0	5,370	169,990	13
Department of Energy .....	89,957	5,345	5,561	0	10,840	66,182	2,029	0	0
Department of Health & Human Svcs .....	253,135	17,415	23,148	0	188,627	0	22,312	546	1,087
Department of the Interior .....	107,571	103,213	2,212	0	1,760	0	0	0	386
Department of Transportation .....	39,943	2,741	23,169	0	1,095	0	5,728	4,021	3,189
Environmental Protection Agency .....	8,904	916	2,973	0	748	0	4,128	0	139
National Aero and Space Admin .....	577,333	216,978	300,088	0	29,354	0	26,826	0	4,087
National Science Foundation .....	76,108	4,357	7,179	0	46,909	0	16,918	621	124
Washington, total .....	1,544,597	178,876	445,130	0	528,012	0	233,289	152,678	6,612
Department of Agriculture .....	44,821	28,073	0	0	16,599	0	149	0	0
Department of Commerce .....	44,911	34,918	5,775	0	3,264	0	15	0	939
Department of Defense, research <sup>2</sup> .....	138,604	2,517	97,248	0	34,390	0	2,282	2,167	0
Department of Defense, total development <sup>3</sup> .....	385,765	91,386	280,486	0	6,578	0	390	6,925	0
Department of Energy .....	169,954	32	5,890	0	22,874	0	2,573	138,585	0
Department of Health & Human Svcs .....	610,927	6,927	17,702	0	356,638	0	223,519	3,867	2,274
Department of the Interior .....	16,097	13,777	8	0	2,170	0	52	0	90
Department of Transportation .....	5,285	20	507	0	1,940	0	0	0	2,818
Environmental Protection Agency .....	5,242	344	295	0	2,790	0	1,322	0	491
National Aero and Space Admin .....	46,007	791	34,424	0	9,707	0	0	1,085	0
National Science Foundation .....	76,984	91	2,795	0	71,062	0	2,987	49	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra-mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by industrial firms	Universities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institutions	FFRDCs admin by nonprofit institutions	State and local govts
West Virginia, total .....	352,841	110,923	103,916	0	58,469	46,558	30,858	0	2,117
Department of Agriculture .....	30,263	23,429	0	0	5,844	0	963	0	27
Department of Commerce .....	2,094	0	68	0	2,026	0	0	0	0
Department of Defense, research <sup>2</sup> .....	20,661	4	3,235	0	15,582	0	1,840	0	0
Department of Defense, total development <sup>3</sup> .....	67,081	2,558	60,213	0	850	0	3,460	0	0
Department of Energy .....	80,923	46,407	21,849	0	8,273	0	4,355	0	39
Department of Health & Human Svcs .....	53,656	32,697	4,280	0	14,603	0	1,239	0	837
Department of the Interior .....	6,124	5,828	91	0	205	0	0	0	0
Department of Transportation .....	2,506	0	250	0	1,222	0	0	0	1,034
Environmental Protection Agency .....	4,370	0	0	0	2,942	0	1,248	0	180
National Aero and Space Admin .....	34,018	0	9,528	0	6,762	0	17,728	0	0
National Science Foundation .....	51,145	0	4,402	0	160	46,558	25	0	0
Wisconsin, total .....	487,948	40,712	39,321	0	391,330	0	10,822	0	5,763
Department of Agriculture .....	46,855	29,655	121	0	16,966	0	0	0	113
Department of Commerce .....	1,774	285	567	0	922	0	0	0	0
Department of Defense, research <sup>2</sup> .....	30,253	12	8,933	0	21,308	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	14,389	0	10,548	0	3,841	0	0	0	0
Department of Energy .....	25,021	0	0	0	25,021	0	0	0	0
Department of Health & Human Svcs .....	279,174	55	12,586	0	256,233	0	8,591	0	1,709
Department of the Interior .....	11,789	10,580	200	0	628	0	0	0	381
Department of Transportation .....	3,965	125	239	0	760	0	0	0	2,841
Environmental Protection Agency .....	1,591	0	568	0	460	0	0	0	563
National Aero and Space Admin .....	19,081	0	3,998	0	13,087	0	1,996	0	0
National Science Foundation .....	54,056	0	1,561	0	52,104	0	235	0	156
Wyoming, total .....	36,986	8,275	2,206	0	20,766	0	4,494	0	1,245
Department of Agriculture .....	9,038	5,855	30	0	3,153	0	0	0	0
Department of Commerce .....	445	0	0	0	445	0	0	0	0
Department of Defense, research <sup>2</sup> .....	2,201	29	45	0	2,127	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	684	0	680	0	4	0	0	0	0
Department of Energy .....	4,822	0	0	0	834	0	3,922	0	66
Department of Health & Human Svcs .....	7,450	0	1,116	0	6,263	0	0	0	71
Department of the Interior .....	2,661	2,391	0	0	200	0	0	0	70
Department of Transportation .....	1,386	0	0	0	36	0	472	0	878
Environmental Protection Agency .....	289	0	0	0	129	0	0	0	160
National Aero and Space Admin .....	292	0	135	0	157	0	0	0	0
National Science Foundation .....	7,718	0	200	0	7,418	0	100	0	0
Outlying areas, total <sup>4</sup> .....	133,281	17,785	25,697	0	64,134	10,119	13,210	0	2,336
Department of Agriculture .....	14,983	6,070	0	0	8,903	0	10	0	0
Department of Commerce .....	1,289	375	0	0	47	0	0	0	867
Department of Defense, research <sup>2</sup> .....	922	227	0	0	695	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	21,786	6,259	15,527	0	0	0	0	0	0
Department of Energy .....	721	0	0	0	721	0	0	0	0
Department of Health & Human Svcs .....	70,705	3,082	10,170	0	42,784	0	13,200	0	1,469
Department of the Interior .....	2,185	1,772	0	0	413	0	0	0	0
Environmental Protection Agency .....	447	0	0	0	447	0	0	0	0
National Aero and Space Admin .....	1,590	0	0	0	1,590	0	0	0	0
National Science Foundation .....	18,653	0	0	0	8,534	10,119	0	0	0

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**Table C-85. Federal obligations for research and development, by State, selected agency, and performer: fiscal year 2001**

[Dollars in thousands]

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State and agency	Total	Intra- mural <sup>1</sup>	Extramural						
			Industrial firms	FFRDCs admin by indus- trial firms	Univer- sities and colleges	FFRDCs admin by univs and colleges	Other nonprofit institu- tions	FFRDCs admin by non- profit institu- tions	State and local govts
Puerto Rico, total <sup>4</sup> .....	90,790	10,552	10,170	0	57,555	10,119	68	0	2,326
Department of Agriculture .....	10,657	6,070	0	0	4,577	0	10	0	0
Department of Commerce .....	916	27	0	0	32	0	0	0	857
Department of Defense, research <sup>2</sup> .....	695	0	0	0	695	0	0	0	0
Department of Energy .....	721	0	0	0	721	0	0	0	0
Department of Health & Human Svcs .....	55,912	3,082	10,170	0	41,133	0	58	0	1,469
Department of the Interior .....	1,448	1,373	0	0	75	0	0	0	0
Environmental Protection Agency .....	198	0	0	0	198	0	0	0	0
National Aero and Space Admin .....	1,590	0	0	0	1,590	0	0	0	0
National Science Foundation .....	18,653	0	0	0	8,534	10,119	0	0	0
Other areas, total <sup>4</sup> .....	42,491	7,233	15,527	0	6,579	0	13,142	0	10
Department of Agriculture .....	4,326	0	0	0	4,326	0	0	0	0
Department of Commerce .....	373	348	0	0	15	0	0	0	10
Department of Defense, research <sup>2</sup> .....	227	227	0	0	0	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	21,786	6,259	15,527	0	0	0	0	0	0
Department of Health & Human Svcs .....	14,793	0	0	0	1,651	0	13,142	0	0
Department of the Interior .....	737	399	0	0	338	0	0	0	0
Environmental Protection Agency .....	249	0	0	0	249	0	0	0	0
Offices abroad, total .....	30,265	29,234	27	0	1,004	0	0	0	0
Department of Agriculture .....	4,133	4,130	0	0	3	0	0	0	0
Department of Defense, research <sup>2</sup> .....	17,367	17,141	2	0	224	0	0	0	0
Department of Defense, total development <sup>3</sup> .....	7,646	7,621	25	0	0	0	0	0	0
Department of the Interior .....	1,119	342	0	0	777	0	0	0	0

<sup>1</sup> Includes costs associated with the administration of intramural and extramural programs by Federal personnel as well as actual intramural performance.

<sup>2</sup> Beginning with Vol. 40 (fiscal years 1990-92), Department of Defense (DOD) research is reported separately from DOD development. DOD states that more than 90 percent of its development reported for "universities and colleges" is performed at off-campus, university-affiliated laboratories that are not involved in teaching.

<sup>3</sup> Beginning with Vol. 44 (fiscal years 1994-96), Department of Defense development obligations are reported in two categories: advanced technology and major systems. Geographic data for these categories are not reported; therefore, this table shows only total development.

<sup>4</sup> Outlying areas, total, represents the sum of Puerto Rico, total, and Other areas, total.

**KEY:** FFRDCs = Federally funded research and development centers

**NOTES:** Only the following 10 agencies are required to report to this section of the survey: the Departments of Agriculture, Commerce, Defense, Energy, Health and Human Services, Interior, and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation. The obligations of the 10 major Research and Development (R&D) supporting agencies included in this table represent approximately 98 percent of total Federal R&D and R&D plant obligations in fiscal year 2001.

Geographic distribution of Department of Defense development funding to industry reflects only the location of prime contractors, not the numerous subcontractors who perform much of the research and development.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, Survey of Federal Funds for Research and Development: Fiscal Years 2001, 2002, and 2003